CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date: 24.07.2019

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	440 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date : 24.07.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.

Date of Testing : 24.07.2019

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	52	5.20	5.20	94.8	90-100
2.36	165	16.50	21.70	78.3	75-100
1.18	195	19.50	41.20	58.8	55-90
600 Micron	165	16.50	57.70	42.3	35-59
300 Micron	235	23.50	81.20	18.8	8-30
150 Micron	125	12.50	93.70	6.3	0-10

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date : 24.07.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.

Date of Testing : 24.07.2019
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	138	0.92	0.92	99.08	95-100
20	7956	53.04	53.96	46.04	30-70
10	3214	21.43	75.39	24.61	10-35
4.75	3265	21.77	97.15	2.85	0-5

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20 Date : 24.07.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of Work : Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.

Date of Testing : 24.07.2019
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	162	3.2	3.2	96.8	95-100
10	2325	46.5	49.7	50.3	25-55
4.75	2125	42.5	92.2	7.8	0-10

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

06.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.

Name of the work : Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	06.08.2019	8.142	267.3	11.88
2	30.07.2019	06.08.2019	8.126	271.4	12.06
3	30.07.2019	06.08.2019	8.133	288.5	12.82

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

27.08.2019

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.

Name of the work : Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	27.08.2019	8.195	395.2	17.56
2	30.07.2019	27.08.2019	8.176	386.4	17.17
3	30.07.2019	27.08.2019	8.165	373.8	16.61

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Job No.: CQCE/BBMP/CSR/W.No.16/2019-20

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Agency	: **Sri. T. Chandra Shekar Reddy,** Contractor, Bangalore.
Name of the work	: Supply of Water pipe line around Jalahalli ward area in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	06.08.2019	8.142	267.5	11.89
2	30.07.2019	06.08.2019	8.136	275.6	12.25
3	30.07.2019	06.08.2019	8.151	289.6	12.87

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	27.08.2019	8.196	398.2	17.70
2	30.07.2019	27.08.2019	8.175	382.5	17.00
3	30.07.2019	27.08.2019	8.162	375.4	16.68

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